

Title (en)

DIFFERENTIAL FEEDBACK SCHEME FOR CLOSED-LOOP MIMO BEAMFORMING

Title (de)

DIFFERENTIAL-FEEDBACKSCHEMA FÜR MIMO-STRahlenformung IN EINEM GESCHLOSSENEN REGELKREIS

Title (fr)

SCHÉMA DE RÉTROACTION DIFFÉRENTIEL POUR UNE FORMATION DE FAISCEAUX MIMO EN BOUCLE FERMÉE

Publication

**EP 2425544 A1 20120307 (EN)**

Application

**EP 10770386 A 20100429**

Priority

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Abstract (en)

[origin: WO2010127183A1] A first NxM codebook of a first rank M may be used to generate a second Nx(N-M) codebook of a second rank (N-M). This second codebook is both orthogonal and complementary to the first codebook. In practice, this may reduce storage requirements in closed-loop MIMO beamforming, because the second codebook may be dynamically generated as needed by a base station and/or a mobile station. In some cases, a higher rank beamforming matrix or precoding matrix may be formed from a lower rank (e.g., one or two) beamforming matrix or precoding matrix. Also, a novel way to generate the rotation matrix is disclosed.

IPC 8 full level

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